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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/904,963	07/13/2001	Edward Paul Harhen	TRANS 3.0-038A	5166
530	7590 06/04/2003			
•	AVID, LITTENBERO	EXAMINER		
600 SOUTH	Z & MENTLIK AVENUE WEST	MANTIS MERCADER, ELENI M		
WESTFIELD	, NJ 07090		ART UNIT	PAPER NUMBER
			3737	- X
			DATE MAILED: 06/04/2003	\mathcal{O}

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	-				
•		09/904,963	HARHEN ET AL.	V				
	Office Action Summary	Examiner	Art Unit					
		Eleni Mantis Merc	eader 3737					
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
THE I - Externafter - If the - If NO - Failu - Any r	ORTENED STATUTORY PERIOD FOR REPI MAILING DATE OF THIS COMMUNICATION nsions of time may be available under the provisions of 37 CFR 1 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a re period for reply sepecified above, the maximum statutory period re to reply within the set or extended period for reply will, by statu- reply received by the Office later than three months after the mailined patent term adjustment. See 37 CFR 1.704(b).	. 136(a). In no event, however ply within the statutory mining will apply and will expire S te, cause the application to	er, may a reply be timely filed num of thirty (30) days will be considered timel IX (6) MONTHS from the mailing date of this of become ABANDONED (35 U.S.C. § 133).					
1)⊠	Responsive to communication(s) filed on 3/2	<u>24/03</u> .						
2a) <u></u> □	This action is FINAL . 2b)⊠ T	his action is non-fin	al.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims								
4)⊠	Claim(s) 1-12 is/are pending in the application	on.						
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.								
6)⊠	6)⊠ Claim(s) <u>1-12</u> is/are rejected.							
7) Claim(s) is/are objected to.								
8) Claim(s) are subject to restriction and/or election requirement.								
Applicati	on Papers							
9)□	The specification is objected to by the Examin	er.						
10) The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.								
If approved, corrected drawings are required in reply to this Office action.								
12)☐ The oath or declaration is objected to by the Examiner.								
Priority under 35 U.S.C. §§ 119 and 120								
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
a)	a) ☐ All b) ☐ Some * c) ☐ None of:							
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).								
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.								
Attachmen			••					
1) Notice 2) Notice 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) 🔲	Interview Summary (PTO-413) Paper No Notice of Informal Patent Application (PT Other:					
S. Patent and T TO-326 (Re	rademark Office v. 04-01) Office /	Action Summary	Part of Paper No. 8					

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DETAILED ACTION

Claim Objections

1. Claims 10 and 12 are objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. Claims 10 and 12 are method claims but they appear to be apparatus claims setting forth structural limitations and not setting forth active verb format limiting method steps. Using an active verb format method step starting with --providing-- and then setting forth the above limitations would overcome the current objection.

Double Patenting

2. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

3. Claims 1-12 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-23 of copending Application No. 10/227,092. Although the conflicting claims are not identical, they are not patentably distinct from each other because they represent obvious alternate variations and groupings.

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This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

4. Claims 1-12 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-80 of copending Application No. 09/905,227. Although the conflicting claims are not identical, they are not patentably distinct from each other because they represent obvious alternate variations and groupings.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

5. Claims 1-12 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims1-4 of copending Application No. 10/062,693. Although the conflicting claims are not identical, they are not patentably distinct from each other because they represent obvious alternate variations and groupings.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Claim Rejections - 35 USC § 102 or in the alternative under- 35 USC § 103

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

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7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

8. Claims 1-3, 9 and 11-12 are rejected under 35 U.S.C. 102(e) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over O'Connor'792.

O'Connor'792 teaches all the features of the instant invention including an ultrasonic emitter at the distal end of the catheter having an emitting surface extending around a central axis and facing outwardly away from said central axis (see Figure 3; tubular ultrasonic transducer 24 and also see col. 3, lines 33-57); and an inflatable lens having a refractive surface extending around the central axis when the lens is in an inflated condition surrounding the emitter so that some of the emitted ultrasonic energy is directed through the refractive surface of the lens into the tissue of the subject, focusing ultrasonic energy into an annular focal region surrounding the central axis (referring to balloon 22 which focuses ultrasonic energy to break up the thrombus and also see col. 3, lines 41-57).

It is inherent that the surrounding balloon containing a liquid/contrast agent causing focusing of the ultrasound waves constitutes an inflatable lens since it <u>focuses</u> the ultrasonic energy as stated in O'Connor'792 in col. 3, lines 23-57 or in the alternative the inflatable balloon serves as a functional equivalent with the same end result of focusing the ultrasonic energy.

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Claim Rejections - 35 USC § 103

9. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 10. Claims 4-8 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over O'Connor'792.

The use of multiple balloons filled with different media to create a refractive surface would have been a functional equivalent of a single balloon as taught by O'Connor'792 yielding the same end result of focusing the emitted ultrasonic energy for therapeutic purposes at the area of interest.

Conclusion

11. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Diederich et al. '151 teach a circumferential ablation device assembly (see in particular figures 15a-15e and 18b; describing the central axis transducer and focusing of ultrasonic energy through the surrounding balloon).

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Any inquiry concerning this communication or earlier communications from the 12.

examiner should be directed to Eleni Mantis Mercader whose telephone number is 703 308-

0899. The examiner can normally be reached on Mon. - Fri., 8:00 a.m.-6:30 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Marvin Lateef can be reached on 703 308-3256. The fax phone numbers for the

organization where this application or proceeding is assigned are 703 305-3590 for regular

communications and 703 308-0758 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is 703 308-0858.

Elevistantisterade

Eleni Mantis Mercader

Examiner Art Unit 3737

EMM May 31, 2003